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## IN THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

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## **LISTING OF CLAIMS:**

- 1 1. (Currently Amended) A first type one node for grooming low capacity client
- 2 signals into a high capacity signal, comprising:
- 3 an a first interface to a first high capacity trunk for directly coupling to a second
- 4 type one node; and
- 5 an a second interface to a second high capacity trunk for directly coupling to a
- 6 type two node;
- wherein only a portion of those low capacity client signals destined for the second
- By type one node are groomed into the second high capacity trunk to the type two node.
  - 2. (Cancelled)
- 1 3. (Currently Amended) The apparatus of claim 1, wherein the type two node is a
- 2 high traffic node.
- 1 4. (Currently Amended) The apparatus of claim 1, wherein the second type one node
- 2 is [[a]] an enhanced cable station and the type two node is a central office.
- 1 5. (Previously Presented) The apparatus of claim 1, wherein the low capacity client
- 2 signals comprise plesiochronous digital hierarchy signals and the high capacity signal
- 3 comprises a synchronous transport module signal.
- 1 6. (Currently Amended) An apparatus for performing selective grooming of client
- 2 signals, the apparatus comprising:
- a first type one node coupled (a) directly to a first second type one node via a first
- 4 <u>interface to</u> a first high capacity trunk, and (b) directly to a second type two node via a

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- 5 second interface to a second high capacity trunk, such that only a portion of the client
- 6 signals destined for the first second type one node are groomed into the high second high
- 7 capacity trunk to the second type two node.
  - (Cancelled)
- 1 8. (Currently Amended) The apparatus of claim 6, wherein the first second type one
- 2 node is a low traffic node and the second type two node is a high traffic node.
- 1 9. (Currently Amended) The apparatus of claim 6, wherein the first second type one
- 2 node is [[a]] an enhanced cable station and the second type two node is a central office.
- 1 10. (Currently Amended) The apparatus of claim 6, wherein the client signals
- 2 comprise plesiochronous digital hierarchy signals and the first high capacity trunk and the
- 3 <u>second high capacity trunk each supports support</u> a synchronous transport module signal.
  - 11. (Cancelled)
  - 12. (Cancelled)
  - 13. (Cancelled)
- 1 14. (Currently Amended) A method for use in a first type one node, the method
- 2 comprising the steps of:
- 3 receiving low capacity client signals;
- 4 selectively grooming a portion of the received low capacity client signals into a
- 5 first high capacity trunk directly coupled to a first type of second type one node for
- 6 transmission to the first type of second type one node; and
- 7 transmitting others of the low capacity client signals over a second high capacity
- 8 trunk directly coupled to a second type of type two node;

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- 9 wherein said others of the low capacity signals transmitted over the second high
- 10 capacity trunk comprise low capacity client signals destined for the first type of second
- 11 type one node.
- 1 15. (Currently Amended) The method of claim 14, wherein the low capacity client
- 2 signals signals comprise plesiochronous digital hierarchy signals, and the first high
- 3 capacity trunk and the second high capacity trunk supports each support a synchronous
- 4 transport module signal.
  - 16. (Cancelled)
- 1 17. (Currently Amended) The method of claim 14, wherein the second type of second
- 2 type one node is [[a]] an enhanced cable station and the first type of type two node is a
- 3 central office.
- 1 18. (Currently Amended) The method of claim 14 wherein the second type of second
- 2 type one node is a low traffic node and the first type of type two node is a high traffic
- 3 node.
- 1 19. (Currently Amended) The apparatus of claim 1, wherein grooming of the portion
- 2 of those low capacity client signals destined for said second type one node into the
- 3 second high capacity trunk to said type two node further comprises:
- 4 determining an aggregate amount of traffic between another said first type one
- 5 node and said second type one node;
- determining whether said aggregate amount of traffic between said another first
- 7 type one node and said second type one node exceeds a predetermined threshold, said
- 8 predetermined threshold comprising a fraction of a capacity of said first high capacity
- 9 trunk directly coupling said first type one node and said second type one node; and
- 10 if said aggregate amount of traffic between said first type one node and said
- 11 another second type one node does not exceed said predetermined threshold, routing said

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- 12 amount of traffic from said first type one node over said second high capacity trunk to
- 13 said <u>second</u> type two node; or
- 14 if said amount of traffic between said first type one node and said second type one
- 15 node exceeds said predetermined threshold, provisioning at least one additional high
- 16 capacity trunk between said first type one node and said second type one node.
  - 20. (Cancelled)